

**Department of Public Works and Transportation  
Montgomery County, Maryland**

***DIVISION OF SOLID WASTE SERVICES***



Staff provides recycling information at the County's Diversity Day celebration in October

***MONTHLY REPORT  
OCTOBER 2002***



*Printed on Recycled and Recyclable Paper*

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# **OVERVIEW**

## **Tonnage at a Glance**

The following table shows key material flows during the current month, fiscal year to date (FY Total), and current calendar month in the two prior fiscal years. (County fiscal year 2003 began July 1, 2002.)

<b>FACILITY</b>	<b>Oct FY 03</b>	<b>FY 03 Total</b>	<b>Oct FY 02</b>	<b>Oct FY 01</b>
Materials Recovery Facility <sup>(1)</sup>	7,787 tons	28,344 tons	7,556 tons	7,063 tons
Brunswick Landfill Facility <sup>(2)</sup>	20,543 tons	85,559 tons	18,392 tons	13,833 tons
Resource Recovery Facility <sup>(4)</sup>	51,354 tons	215,416 tons	43,643 tons	46,727 tons
Yard Trim Compost Facility	3,796 tons	12,774 tons	4,653 tons	4,052 tons

<sup>(1)</sup>MRF tons reported are outgoing.

<sup>(2)</sup>This category only addresses waste sent to the landfill for disposal. It does not include rubble that is recycled.

<sup>(4)</sup>RRF tonnage refers to tons burned (processed). Waste shipped from the Transfer Station but not burned is in the pit and is not included in the tonnage presented here.

## **Revenue Analysis and Systems Evaluation** – During October, program staff:

- Received and researched 10 inquires regarding solid waste fees on the property tax bill.
- Completed processing 39 nonresidential rate appeal applications;
- Issued hauler credit account invoices for September tons, prepared journal entries and balanced to FAMIS without complication;
- Worked on collection problems arising from U.S. Department of Treasury confiscation of NIST payments;
- Continued work with Finance on improvements in tracking wire transfers.
- Worked extensively with one hauler to explain past due interest causing continuing arrearage;
- Worked with several haulers to promote use of internet to review and pay bills;
- Placed claim against Higher Power and its surety agent;
- Streamlined procedures for calling collateral on past due accounts;
- Received 3 changes back from SDAT for reviewing;
- Entered 5 billing data correction changes in the TXA 170 system;
- Processed 8 vacancy refunds;
- Continued research on governmental properties;

- Entered 743 new properties into property account billing database;
- Updated service household counts by collection contract area;
- Analyzed daily cash management at TS, assisted with improved internal controls;
- Completed field audits of 6-month hauler reports;
- Worked on FY02 County-wide material flow analysis;
- Continued assisting new Budget Manager in preparation of division wide budget;
- Coordinated tonnage forecast updates influencing individual program budgets;
- Calibrated 81-month forecast of collection service house counts by contract area;
- Collaborated on development of a model to predict future RRF bypass waste;
- Worked on model relating private waste flows and regional tipping fees;
- Drafted performance measures (Program Measures) updates;
- Continued analysis applying field research results for nonresidential rates;
- Assisted in managing consultant study to assess waste composition changes;
- Began calibrating Fiscal Health spreadsheet to draft FY02 year-end work papers;
- Conducted research responsive to OMB comments on the drafted Collection Fund Retained Earnings Policy.

## **CITIZEN COMMITTEES**

**Facilities Implementation Group** – FIG met on September 10<sup>th</sup> at the Gothic Barn in Dickerson. Eleven FIG Members, six County staff, six contract staff, and two residents of the area were in attendance. Topics discussed included the Non-Air Media Monitoring Program; Historical Interpretation Plan; ISO 14001 Update and Landfill Permit Renewal. Don Wullom was elected as the new Chairman. The next FIG meeting will be held on November 12, 2002, at the Gothic Barn in Dickerson. Topics on the agenda include the Monitoring done by DEP at the facilities and the FY03 Master Plan Budget.

**FIG Annual Report** – The third annual report will be distributed at the 8:00 p.m. November 14<sup>th</sup> meeting with the County Executive.

**Solid Waste Advisory Committee** – SWAC met Saturday, October 5<sup>th</sup>, at the MRF in Derwood, MD. Nine SWAC members, six County staff and two guests were in attendance. Betsy Jett, Co-Chair of the Committee Evaluation and Review Board was a guest at this meeting. DSWS staff gave a presentation and showed a short video on the operation of the new equipment recently installed at the MRF. An update on the Transfer Station operations was also provided; this included graphs and spreadsheets on waste tonnages collected, traffic at the facility, recycling materials collected, radiation hits on the new equipment, and a tour of the facility was provided.

## **COLLECTIONS**

**Refuse** – Refuse collections went as scheduled for the month of October. Collections were made without incident.

**Contractor Performance** – During the month of October, DSWS received 575 complaints. This was the exact number of complaints we received in October 2001.

**Recycling** – Mixed paper tonnages for the residential program during the past 52 weeks are as follows:

CURRENT PERIOD	POUNDS PER HOUSEHOLD	CORRESPONDING PERIOD PREVIOUS YEAR
10/29/01-11/23/01	10.83	11.39
11/26/01-12/21/01	11.52	11.49
12/24/01-1/18/02	9.58	9.51
1/21/02-2/15/02	9.01	9.78
2/18/02-3/15/02	9.02	9.41
3/18/02-4/12/02	9.73	9.87
4/15/02-5/10/02	9.81	9.68
5/13/02-6/07/02	9.58	10.19
6/10/02-7/05/02	9.21	9.21
7/08/02-8/02/02	8.74	8.62
8/05/02-8/30/02	9.24	9.10
9/02/02-9/27/02	10.15	10.08
9/30/02-10/25/02	10.45	11.10

**Customer Service** – DSWS received 8,071 incoming calls; 636 follow-up calls were made for quality check. There were 849 blue bins delivered and 332 e-mail requests handled by the Customer Service Staff.

**Web Site** – The following is information gathered from the DSWS' website through the month of October:

<b>List Memberships</b>	
HHW Announcements	179
Holiday Reminder List	1,109
Newsletter Helper	35

<b>Usage Counters – October 2002</b>	
Number of Hits	4,111
Number of Unique Hits	3,834

<b>E-Mail – October 2002</b>	
Top Topics : SORRT HHW	53
Blue Bins	173

**Enforcement Actions** – Six citations were issued for violations of the County's Solid Waste Laws:

Three citation	Collection without a valid collectors license	\$1500
Two citation	Early morning collection violation	\$1000
One citation	Collection without a valid collectors tag	\$ 500

Seven NOV's were issued for violations of the County's Solid Waste Laws:

Five NOV's	Improperly stored or permitted solid wastes to accumulate
One NOV	Dump, deposit or leave at other than an acceptance facility
One NOV	Failed to store solid wastes in an approved container

## **WASTE MINIMIZATION**

**Bicycle Recycling** – Pedals for Progress picked up 1.63 tons of bikes.

**Computer Recycling** – Approximately 27 tons of computers were recycled.

### **Department of Environmental Protection's Home Composting and Source**



**Reduction Activities** – The Green Man Show began airing on Cable Channel 6 this month. A complete schedule for the program is available online at [greenmanshow.com](http://greenmanshow.com), with a link to the show in streaming video format. The October program examines invasive plants vs. native plants in our parks and landscapes. After several programs have aired this fall, past shows will become available as "digital-on-demand," allowing website users to

download past shows – and allowing us to inventory a large number of topics, both in print and streaming video.

The Green Man column with recommendations on alternative (resource conserving) landscaping continues in several Maryland editions of The Gazette Newspapers and on the web at both <http://www.gazette.net/columnists/> and [greenman@askdep.com](mailto:greenman@askdep.com).

Print advertisements for composting and grasscycling/lawn care continue in the Gazette Newspapers.

## **HAZARDOUS WASTE PROGRAMS**

**Household Hazardous Waste Collection** – There was one HHW event in October at the Transfer Station on October 6, 2002. The event was attended by 785 patrons.

Revised shop drawings for the roof over the HHW compound were reviewed and returned to the contractor.

**Small Quantity Generator Ecowise Program** – One Small Quantity Generator (SQG)/Ecowise event was held on October 9, 2002; 12 businesses participated.

## **AIR PERMITS AND ENVIRONMENTAL PROGRAMS**

**Resource Recovery Facility (RRF): CEMS Tracking of RRF Operations** - The Continuous Emissions Monitoring System (CEMS) continued to track the percent load, certain engineering parameters and emissions of all three units. The system recorded emissions from all three units until approximately 3 p.m. on October 3<sup>rd</sup>, unit 3 CEMS showed a spike in the Carbon Monoxide (CO) level indicating that the unit was brought off-line at that hour. Inquiries with Covanta staff indicated that unit 3 was brought down for scheduled maintenance. During this outage, baghouse cleaning was also done. Thereafter, only units 1 and 2 were operating until October 13<sup>th</sup> when unit 3 was brought back on-line at 8 a.m. All three units operated until October 16<sup>th</sup>. October 16-18<sup>th</sup>, units 1 and 2 were brought off-line one at a time for approximately 30 hours for baghouse cleaning. During the baghouse cleaning process for one unit, the other two units were operating. At approximately 1 a.m. on October 19<sup>th</sup>, all three units were operating at nearly 100% load till the end of the month.

On October 8<sup>th</sup>, at approximately 6:55 a.m., unit 2 CEMS began showing elevated levels of CO. The cause was a feed chute plug that was identified by the crane operator at 6:00 a.m.; Covanta staff immediately began efforts to remove the blockage. It took nearly two hours to remove the object and get the system into normal operations. During the pluggage, Covanta shutoff the fans to minimize cold air getting into the furnace, and started firing natural gas to raise the temperature. Despite these efforts, inefficient combustion caused the 1-hour and 4-hour CO levels to exceed the Title V Air Permit limits. Because the CO exceedances are caused by "equipment malfunction," these exceedances are covered under malfunction relief in the Title V Air Permit and do not constitute a permit violation.

For the month of October, Covanta performed the monthly "Opacity Test" on October 29<sup>th</sup>; the opacity test is a requirement under Title V of the RRF Air Permit. As in past tests, the opacity readings were 0% compared to the Title V Permit limit of 10%.

Annual stack emission testing for the RRF was conducted from October 21- 30, 2002. TESTAR, Inc. of Raleigh, N.C. conducted the stack testing and RATA. This testing is required by Title V Air Permit. The results of the stack tests are expected by January 2003.

In the first week of October, the set of four CEMS CD-ROM's was updated to include CEMS data up to September 30, 2002. Copies of the CD-ROM's were placed in the Rockville and Poolesville libraries and distributed to FIG -SWAC Air Quality Subcommittee members.

**FIG-SWAC Air Quality Subcommittee** – DNR completed the review of the Non-Air Media report. DNR's comments were discussed with ENSR staff; ENSR provided satisfactory responses and is currently finalizing the report. ENSR is expected to submit

the draft report on the "RRF Update of the Multiple Pathway Health Risk Study" by the middle of November.

### **Oaks Landfill Energy Recovery Facility: Leachate Evaporation Technology -**

For the entire month of October, the leachate evaporator was shutdown. The ground-flare without leachate evaporation was operating for 20 days. The backup flare operated for 10 days and was off-line for one day. Bentech is still continuing its efforts to implement an electrical generating facility.

**Contracts and RFP's** - ENSR was supposed to conduct the Fall Ambient Air Sampling Program starting field work in the first week of October and completing the final report by February 2003, which is the contract expiration date. For the air-monitoring work, ENSR is to install one monitoring station near the baseball field in Beallsville and on the roof of Lucketts Elementary School, in Lucketts, VA. As ENSR was preparing to come to the site, the sniper attacks in Montgomery County and Northern Virginia were occurring. Because the sniper problem was continuing for several weeks, ENSR stated that the firm could not take the risk of exposing its staff in the open field and on roofs of buildings for potential sniper attacks. ENSR contacted several consulting outfits in the Washington Metropolitan area to subcontract the field work, but nobody was willing to take the risk. Therefore, ENSR requested that they be allowed to conduct a winter sampling program instead of the fall program. The firm requested an additional 3-month period beyond February 15<sup>th</sup> to complete the report.

The RFP for a replacement contractor was advertised on October 25, 2002. Contractor selection is expected in January 2003.

## **RECYCLING**

**Public Outreach** – The Recycling Task Force met on October 16<sup>th</sup> and October 30<sup>th</sup>. Staff is assisting the Task Force as they try to finalize recommendations to present to the County Executive in December.

**Commercial Recycling and Waste Reduction** – Staff continued to perform onsite visits of businesses in October, resolved several complaints, and distributed recycling information at six special events. At a special Halloween Event, staff presented certificates of appreciation to the recycling coordinators of each floor in the Executive Office Building and recognized the efforts of the building's cleaning staff.

**Multi-Family Recycling** – Staff continued to perform onsite evaluations of multi-family recycling programs, followed up on inquiries from concerned citizens, and distributed apartment recycling bins. Staff participated in the National Institutes of Health's "Share the Health" exposition in October.

**Mixed Paper Recycling** – Several illustrated and translated outreach pieces (including one flyer, two brochures and a booklet) highlighting the do's and don'ts of mixed paper recycling at the curb are being distributed. A paper bag, complete with the do's and



don'ts of mixed paper recycling is again being distributed to residents directly, and through some grocery stores.

**Volunteer Activities** – One volunteer assisted at the October HHW collection held at the Transfer Station. In addition, 17 volunteers provided almost 79.5 hours of assistance to County residents at the County Housing Fair, Agricultural History Farm Park, Latino Hispanic Festival, Community Volunteer Day, NIH, St. John's Lutheran Garden Club, and St. Francis Church. Volunteers also assisted in the office preparing mailings of information.

## **PILOT PROGRAMS**

**Mixed Paper Pilot** – The October totals for the Potomac totor program are:

10/2/02	15,820 lbs.	19.53 lbs. per household
10/9/02	15,820 lbs.	19.53 lbs. per household
10/16/02	14,220 lbs.	17.56 lbs. per household
10/23/02	18,220 lbs.	22.49 lbs. per household
<u>10/30/02</u>	<u>15,000 lbs.</u>	<u>18.52 lbs. per household</u>
Total	79,080 lbs.	19.53 lbs. average per household

The current average weight per house for the 56 weeks of the totor program is 19.97 lbs. as opposed to 13.99 lbs. per house prior to the program. This represents a 42.75% increase in the mixed paper capture rate since the start of the totor program.

## **FACILITY ACTIVITIES**

**Resource Recovery Facility** – Of the 51,354 tons processed in October, 546 tons were reject material from the Compost Facility. Trash deliveries have declined to approximately 11,500 ton/week. October began the fall planned outage season; unit 3 was the first to be scheduled down. This outage went as expected. No major work was planned or required.

There were no significant safety incidents during the month. The facility continues to operate with no OSHA recordable accidents in over 940 days.

There were no generation emergencies issued by Mirant during the month of October; there was no need to purchase power during the month.

On October 18<sup>th</sup> unit 2 recorded elevated CO readings above Title V permit limits due to a severe feed chute plug. However, the RRF will be exempt from the 1 hour and 4 hour CO standards based on data excluded under NSPS three-hour shutdown provisions.

Due to an oversight, the 3<sup>rd</sup> Quarter 2002 drinking water coliform bacteria-sampling event was not performed. As required, the RRF posted appropriate notices until the 4<sup>th</sup> Quarter 2002 sample was taken and analyzed. A sample taken on October 23<sup>rd</sup> showed

no presence of coliform bacteria. A new sampling schedule tracking system has been instituted to ensure future compliance.

The following environmental activities occurred:

- Submitted 3<sup>rd</sup> quarter 2002 Operations and Emissions Report to MDE;
- Submitted 3<sup>rd</sup> quarter 2002 NPDES Report to NMWDA and MDE;
- Submitted 4<sup>th</sup> quarter 2002 Bacteriological Monitoring Report to MDE;
- Submitted Removed Substances Reports for wastewater treatment plant sludge and used oil to MDE;
- Submitted the September 2002 Potable Water Monthly Operating Report to MDE;
- Completed annual source testing and relative accuracy test audit (RATA) from October 21-30, 2002;
- Continued preliminary pH/metals analysis of ash to determine optimum dolomitic lime addition rate. Testing was performed at dolomitic lime addition rates of five and seven pounds/ton;
- Performed triennial lead/copper drinking water testing. Results were in compliance with drinking water standards;
- The monthly visible emission (Method 9) observation required by the RRF's Title V Permit was performed on October 28<sup>th</sup>;
- The CEMS technician, Syl Ebron, submitted updated CD-ROM's to the County that included data for September 2002.

**Materials Recovery Facility** – Approximately 1,924 tons of commingled material were shipped out, and approximately 5,862 tons of mixed paper were loaded out and transferred to the Office Paper Systems processing facility.

ICF Consulting continued work developing and installing a new display wall explaining the processing system, to be located in the information center. Potomac, Inc. continued to develop a brochure explaining the new processing system.

Parking spaces were striped.

Trees along the access road were mulched.

**Oaks Landfill** – SCS Field Services continued design and field assessment for pipe replacement and system upgrades to the landfill gas management system and met with the current landfill gas contractor to discuss control system modifications.

The Office of Procurement completed review of an IFB for subdividing the leachate storage lagoons to facilitate long-term maintenance. The IFB will be issued in mid-November.

**Gude Landfill** – Highway and Safety Services, Inc. completed work to improve drainage at several ponded areas.

**Beantown Dump** – Phase two, which includes the installation of 30 additional gas venting wells will occur in 2003, when the site currently being improved is complete and wells can be installed.

**Transfer Station** – During October, Covanta shipped via rail 53,018 tons of processible waste from the Transfer Station to the Resource Recovery Facility, 3,422 more tons than shipped in October 2001.

Litter was collected by MES along Shady Grove Road from Route 355 to the intersection with Muncaster Mill Road.

Compactor #3 underwent additional scheduled repairs.

New smoke vents were installed to replace the ones that were previously broken by the fire department when they responded to an event.

The radiation detectors had 17 alarms in October including 5 false alarms (alarms that could not be re-verified) - all of the valid alarms were identified as medical isotopes with short half-lives. All but one of the loads with medically related waste were accepted. One load was rejected and returned to its hospital of origin to emphasize their need to improve their waste management oversight.

National Institutes of Health (NIH) staff visited the Transfer Station site to observe our radiation detection systems. They are considering installing a similar system at their facility. The National Naval Medical Center also solicited information about our system.

Enforcement actions at the Transfer Station:

35 tickets	No valid collection tag
4 tickets	Collectors tag not attached to the Vehicle
2 tickets	No Covers

Total fines - \$24,750

**Site 2 Landfill Properties** – The County Attorney's office is reviewing the draft lease for the Chiswell Property.

On October 19<sup>th</sup> a representative from DSWS visited the Webb property at the tenant's request to inspect an erosion problem he believes was caused by the activities of one of our other tenants. DFS is to contact the other tenant to verify that he is aware of the problem and whether or not he has a plan for making repairs.

**Yard Trim Compost Facility** – In the month of October, the YTCF received 3,796 tons of grass for composting; 546 tons of debris were sent to the RRF.

**Fire hydrant installation** – Permits have been secured for the hydrant and the water lines, bids are due by mid-November.

**Bagging Operation** – In October, 22,978 bags of Leafgro were shipped to distributors. (Each bag is 1.5 cubic ft. weighing 45 lbs.)

**Linden Farm Renovations** - Under the signed bagging agreement between SCA and the County, the County is to renovate the Feed Barn and Bank Barn. The renovation work is complete. The painting of the barns and silos has been completed. Roof repair work on the Gothic Barn is in progress.

### **Out-of-County Haul**

**Brunswick County, Virginia** -- During the month of October, about 15,695 tons of ash residue and about 4,848 tons of nonprocessable waste were transported to the County's dedicated disposal cell at the Brunswick Waste Management Facility, Inc. (BWMF) Landfill in Brunswick County, Virginia. Approximately 262 tons of material were recycled at Clean Earth in Hagerstown, MD. The Office of Procurement reviewed an amendment to add five additional nonprocessable waste container/chassis combinations to assist with increasing waste volumes.

## **GENERAL INFORMATION**

### **Important Telephone Numbers**

General information on solid waste	240-777-6400
Customer Service	240-777-6410
Transfer Station	301-840-2370 (County Office) 301-590-1032 (Covanta)
Materials Recovery Facility	301-840-2701 (County Office) 301-417-1447 (MES)
Resource Recovery Facility	240-777-6494 (County Office) 301-916-3031 (Covanta)
Yard Trim Compost Facility	301-428-8185 (MES)
Internet for DSWS	<a href="http://www.mcrecycles.org">www.mcrecycles.org</a>

Note: All comments, questions, and suggestions on the contents of this report should be addressed to:

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## **SOLID WASTE FACTS IN A NUTSHELL**

<b>TOPIC OR FACILITY</b>	
Latest Recycling Rate Reported in Montgomery County	37.2% (FY01)
Recycling Goal	45% by December 2002 50% by December 2004
Resource Recovery Facility (RRF)	Guaranteed Capacity = 85% of 1800 TPD on an annual basis (558,450 tons/yr).
Yard Trim Composting Facility (YTCF)	Operations limited to receipt of 77,000 tons/year under Sugarloaf Settlement Agreement. FY02 tons received- 63,633
# Residences receiving trash collection by County contractors	84,865
# Residences receiving collection of recyclables in blue bins and yard waste collection	201,961
Term of out-of-county waste transportation and disposal contract with Brunswick Waste Management Facility, Inc.	June 19, 1997 through June 30, 2012 with an option for a five-year renewal. (Service started on October 20, 1997.)

## GLOSSARY OF ACRONYMS

AAR	American Ash Recycling, Inc.
APC	Air Pollution Control
ASME	American Society of Mechanical Engineers
BFI	Browning Ferris Industries
CDL	Commercial Driver's License
CEMS	Continuous Emissions Monitoring System
CFR	Code of Federal Regulation
CIP	Capital Improvements Program
COG	Metropolitan Washington Council of Governments
CSX	Chesapeake Transportation Systems
DEP	Department of Environmental Protection
DFS	Division of Facilities and Services
DNR	Maryland Department of Natural Resources
DSWS	Division of Solid Waste Services
EPA	Environmental Protection Agency
FIG	Facilities Implementation Group
HCFA	Health Care Financing Administration
HHW	Household Hazardous Waste
IFB	Invitation For Bid
IPM	Integrated Pest Management
LFG	Landfill Gas
LTTS	Leachate Thermal Treatment System
MCPS	Montgomery County Public Schools
MCR	Maximum Continuous Rating
MDE	Maryland Department of Environment
MES	Maryland Environmental Service
Mg/l	milligrams per liter
M-NCPPC	Maryland National Capital Park and Planning Commission
MRF	Materials Recovery Facility
MWh	Mega Watt hours
NIST	National Institute of Standards and Technology
NMWDA	Northeast Maryland Waste Disposal Authority
NOV	Notice of Violation
NPDES	National Pollution Discharge Elimination System
NTP	Notice to Proceed
OLAC	Oaks Landfill Advisory Commission
OMB	Office of Management and Budget
OPS	Office Paper Systems
PEPCO	Potomac Electric Power Company
PSA	Public Service Announcement
RATA	Relative Accuracy Test Audit
RFP	Request for Proposal
ROL	Reduced Operating Level
RRF	Resource Recovery Facility
SCA	Sugarloaf Citizens Association
SHA	State Highway Administration
SORRT	Smart Organizations Reduce and Recycle Tons
SDAT	State Department of Assessments and Taxation
SWAC	Solid Waste Advisory Committee
TXA170	Computer Interface Program
TCLP	Toxic Characteristic Leaching Procedure
TPD	Tons Per Day
TRRAC	Think Reduce and Recycle at Apartments and Condominiums
UT	Ultra-sonic Testing
WM	Waste Management
YTCF	Yard Trim Composting Facility